

Noise level and detection capability of microearthquakes for Hi-net

Kazushige Obara[1]

[1] NIED

Hi-net and Kanto-Tokai seismic data collected by NIED are used to investigate the noise level and detection capability of microearthquakes. The noise level is affected by human activities and weather change. The detection capability of microearthquakes depends on the noise level. The seismic network is able to detect a microearthquake whose magnitude is more than 1.5 if the earthquake occurs at very shallow part in land area.